TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-01-06** **Date: 30-03-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-17
Sample ID No	:	2017-03-01-06/01
Sample Type	:	Zuari 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-03-2017 to 30-03-2017

Ward No 5

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg, Min)	275.8	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	215 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-01-06** **Date: 30-03-2017**

Sample ID No : **2017-03-01-06/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-27-06** **Date: 30-03-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-06/02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	27-03-17

AE ward No 5 ಸಿಕ್ಕಿ ಕೆಲಸಕ್ಕಿಗೆ
ಸಹಾಯಕ ಅಭಿಯಂತರರು ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	105	105	2.1	97.9	90-100
3	10 mm	2265	2370	47.4	52.6	25-55
4	4.75 mm	2195	4565	91.3	8.7	0-10
5	Pan	435	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-27-06** **Date: 30-03-2017**

Sample ID No : 2017-03-27-06/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.1**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**13.6**	
3	Specific Gravity	**2.58**	–
4	Bulk Density(Loose) (Kg/l)	**1.49**	–
5	Bulk Density(Compacted) (Kg/l)	**1.55**	–
6	Water Absorption(%)	**0.23**	–
7	Aggregate crushing Value(%)	**22.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**20.8**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-27-06** **Date: 30-03-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-06/01
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	27-03-17

ವಾರ್ಡ್ ನಂ 5 ಸಿಸ್ಟ್ ಸೆಕ್ಷನ್ A
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	857	857	5.7	94.3	90-100
3	20 mm	7865	8722	58.1	41.9	30-70
4	10 mm	3544	12266	81.8	18.2	10-35
5	4.75 mm	2091	14357	95.7	4.3	0-5
6	Pan	643	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-27-06** **Date: 30-03-2017**

Sample ID No : 2017-03-27-06/01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	1.18	–

Note:

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Prepared by
Harshitha

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-27-06** **Date: 30-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-06/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-03-17
Total weight taken	:	1000 grams

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Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	155	241	24.1	75.9	60-95	75-100	85-100	95-100
4	1.18 mm	181	422	42.2	57.8	30-70	55-90	75-100	90-100
5	600 micron	157	579	57.9	42.1	15-34	35-59	60-79	80-100
6	300 micron	175	754	75.4	24.6	5-20	8-30	12-40	15-50
7	150 micron	214	968	96.8	3.2	0-10	0-10	0-10	0-15
8	Pan	32	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-27-06** **Date: 30-03-17**

Sample ID No : 2017-03-27-06/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.92	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron	3.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-27-06**	**Date: 30-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.	
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/25/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-03-17	
Sample ID No	:	2017-03-27-06/04	
Sample Type	:	JSW Steel	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	29-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW Steel	Fe500	8mm	0.392	543	653	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW Steel	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-27-06**	**Date: 30-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.	
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/25/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-03-17	
Sample ID No	:	2017-03-27-06/05	
Sample Type	:	JSW Steel	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	29-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW Steel	Fe500	10mm	0.613	565	672	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW Steel	Fe500	10mm	Satisfactory	Satisfactory

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A.E ward No 5
ಸಿಗಲಿ ಕೃಷ್ಣಪ್ಪ

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-27-06** **Date: 30-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-06/06
Sample Type	:	JSW Steel
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	29-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW Steel	Fe500	12mm	0.885	585	692	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW Steel	Fe500	12mm	Satisfactory	Satisfactory

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-05-06** **Date: 08-04-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.

Agency : Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/25/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-17

Sample ID No : 2017-04-05-06/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	31/03/2017	07/04/2017	151.55 X 150.54 X 150.98	22814	8.172	399.3	17.5	17.6
2	Drain Concrete	M20	31/03/2017	07/04/2017	151.97 X 150.22 X 150.42	22829	8.148	413.2	18.1	
3	Drain Concrete	M20	31/03/2017	07/04/2017	150.76 X 150.87 X 150.19	22745	8.107	393.5	17.3	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

AE ward No 5
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-05-06** **Date: 28-04-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.

Agency : Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/25/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-17

Sample ID No : 2017-04-05-06/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	31/03/2017	28/04/2017	151.22 X 150.28 X 151.54	22725	8.189	540.9	23.8	24.2
2	Drain Concrete	M20	31/03/2017	28/04/2017	150.98 X 151.44 X 149.05	22864	8.154	562.5	24.6	
3	Drain Concrete	M20	31/03/2017	28/04/2017	151.32 X 151.86 X 151.04	22979	8.126	553.8	24.1	

Note:
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Prepared by
Harsitha

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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ಸಹಾಯಕ ಅಭಿಯಂತರರು
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	11-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.5%	
Combined Flakiness and Elongation Index for WMM	23.3%	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-10-03**	**Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.	
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-04-17	
Sample ID No	:	2017-04-10-03/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	11-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.0	305.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.5	77.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	232.1	227.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.5
5	Aggregate impact value	(B/A)*100	23.8	25.3
6	Aggregate impact value (Mean of two tests)	Pecentage	24.5	

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	11-04-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	301	301	3.01	97.0	95-100
22.4	2285	2586	25.86	74.1	60-80
11.2	2143	4729	47.29	52.7	40-60
4.75	2285	7014	70.14	29.9	25-40
2.36	1239	8253	82.53	17.5	15-30
0.6	814	9067	90.67	9.3	8-22
0.075	765	9832	98.32	1.7	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 13-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	11-04-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	287	287	2.87	97.1	95-100
22.4	2362	2649	26.49	73.5	60-80
11.2	2065	4714	47.14	52.9	40-60
4.75	2199	6913	69.13	30.9	25-40
2.36	1126	8039	80.39	19.6	15-30
0.6	732	8771	87.71	12.3	8-22
0.075	1032	9803	98.03	2.0	0-5

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10.04.17

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-04-15-02** **Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004),
Date of test	:	17-04-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**62.8**	60 to 70
2	Softening Point, °C	**48.6**	Min. 40°C
3	Ductility, cm	**97**	Min. 75cm
4	Flash point, °C	**232.5**	Min. 220°C
	Fire point, °C	**275.5**	

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Page 1/1
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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 (Part III)

Lab ID	:	**CP-RW-2017-04-15-02** **Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-02/01
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous concrete)
Date of test	:	15-04-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2295	2250	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1504	1459	
4	Weight of Saturated Surface Dry aggregate	B	grams	2432	2348	
5	Weight of oven dried aggregate	C	grams	2424	2340	
6	Specific gravity	C/(B-A)		2.61	2.63	2.62
7	Apparent Specific gravity	C/(C-A)		2.63	2.66	2.65
8	Water absorption	100*(B-C) /C	Percent	0.33	0.34	0.34

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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-15-02**	**Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub	
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-04-17	
Sample ID No	:	2017-04-15-02/01	
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	17-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	308.4	308.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.3	68.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	240.2	239.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.9	0.4
5	Aggregate impct value	(B/A)*100	21.82	22.34
6	Aggregate impct value (Mean of two tests)		22.1	

Note:-

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-15-02** **Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-02/01
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)
Date of test	:	15-04-17

Result:

Flakiness Index	9.9%
Elongation Index	10.2%
Combined Flakiness & Elongation Index for SDBC	20.1%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Note:-

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Prepared By:
Harshitha

R KARTHIK RECHAN
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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-15-02**	**Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.	
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-04-17	
Sample ID No	:	2017-04-15-02/01	
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	17-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	308.4	308.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.3	68.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	240.2	239.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.9	0.4
5	Aggregate impct value	(B/A)*100	21.82	22.34
6	Aggregate impct value (Mean of two tests)		22.1	

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-15-02** **Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	17-04-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.54	10.11	8.2KN(min)
2	Marshal flow at 60°C, mm	3.22	3.29	2-4
3	Percent air Voids	4.59	4.25	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.88	13.94	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	70.0	65-75
6	Density, g/cc	2.26	2.24	–

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Prepared By:
Harshitha

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-15-02** **Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-02/01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	15-04-17
Oven Dry Weight(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	410	410	8.20	91.8	90-100
4.75	2051	2461	49.22	50.8	35-51
2.36	1038	3499	69.98	30.0	24-39
1.18	625	4124	82.48	17.5	15-30
0.3	403	4527	90.54	9.5	9-19
0.075	169	4696	93.92	6.1	3-8
PAN	304	5000	100.00	0.00	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-15-02** **Date: 18-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	15-04-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.8	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

Note:
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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-04-20-02**	**Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.	
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	20-04-17	
Sample ID No	:	2017-04-20-02/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	20-04-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	474	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.20	5.00
4	Average percentage	%	5.10	

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Lab ID : **CP-RW-2017-04-20-02** **Date: 22-04-17**

Sample ID No : **2017-04-20-02/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	27	27	5.7	94.3	90-100
4.75	205	232	48.9	51.1	35-51
2.36	121	353	74.5	25.5	24-39
1.18	43	396	83.5	16.5	15-30
0.3	29	425	89.7	10.3	9-19
0.075	31	456	96.2	3.8	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	19	19	4.0	96.0	90-100
4.75	265	284	59.8	40.2	35-51
2.36	71	355	74.7	25.3	24-39
1.18	38	393	82.7	17.3	15-30
0.3	27	420	88.4	11.6	9-19
0.075	29	449	94.5	5.5	3-8

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-04-20-02**	**Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Venkateshpura nagara main Road and Cross Roads in Ward No 05 Byatarayanapura Sub division.	
Agency	:	Sri. Sudhakarreddy, #2471, 13th Main road, 10th Cross, 'E' Block Bangalore.	
Customer Reference	:	BBMP/EE/BTP/WO/25/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	20-04-17	
Sample ID No	:	2017-04-20-02/02	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	20-04-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	502
2	Weight of the sample After extraction	B	476	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.18	4.98
4	Average percentage	%	5.08	

AE ward no 5
ಸುಧಾಕರ್ ರೆಡ್ಡಿ A

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Lab ID : **CP-RW-2017-04-20-02** **Date: 22-04-17**

Sample ID No : **2017-04-20-02/02**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	19	19	4.0	96.0	90-100
4.75	250	269	56.5	43.5	35-51
2.36	76	345	72.5	27.5	24-39
1.18	33	378	79.4	20.6	15-30
0.3	53	431	90.5	9.5	9-19
0.075	17	448	94.1	5.9	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	27	27	5.7	94.3	90-100
4.75	225	252	52.8	47.2	35-51
2.36	81	333	69.8	30.2	24-39
1.18	45	378	79.2	20.8	15-30
0.3	53	431	90.4	9.6	9-19
0.075	21	452	94.8	5.2	3-8

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